Decision Trees for Fund Sources in the New Millennium Program (NMP) and Living With a Star (LWS) Program

Presented at the NMP/LWS Space Environment Testbed Partnership Workshop

August 23, 2000

Dana A. Brewer
Program Executive
Flight Programs Division
NASA Headquarters
Washington, DC

NMP Background

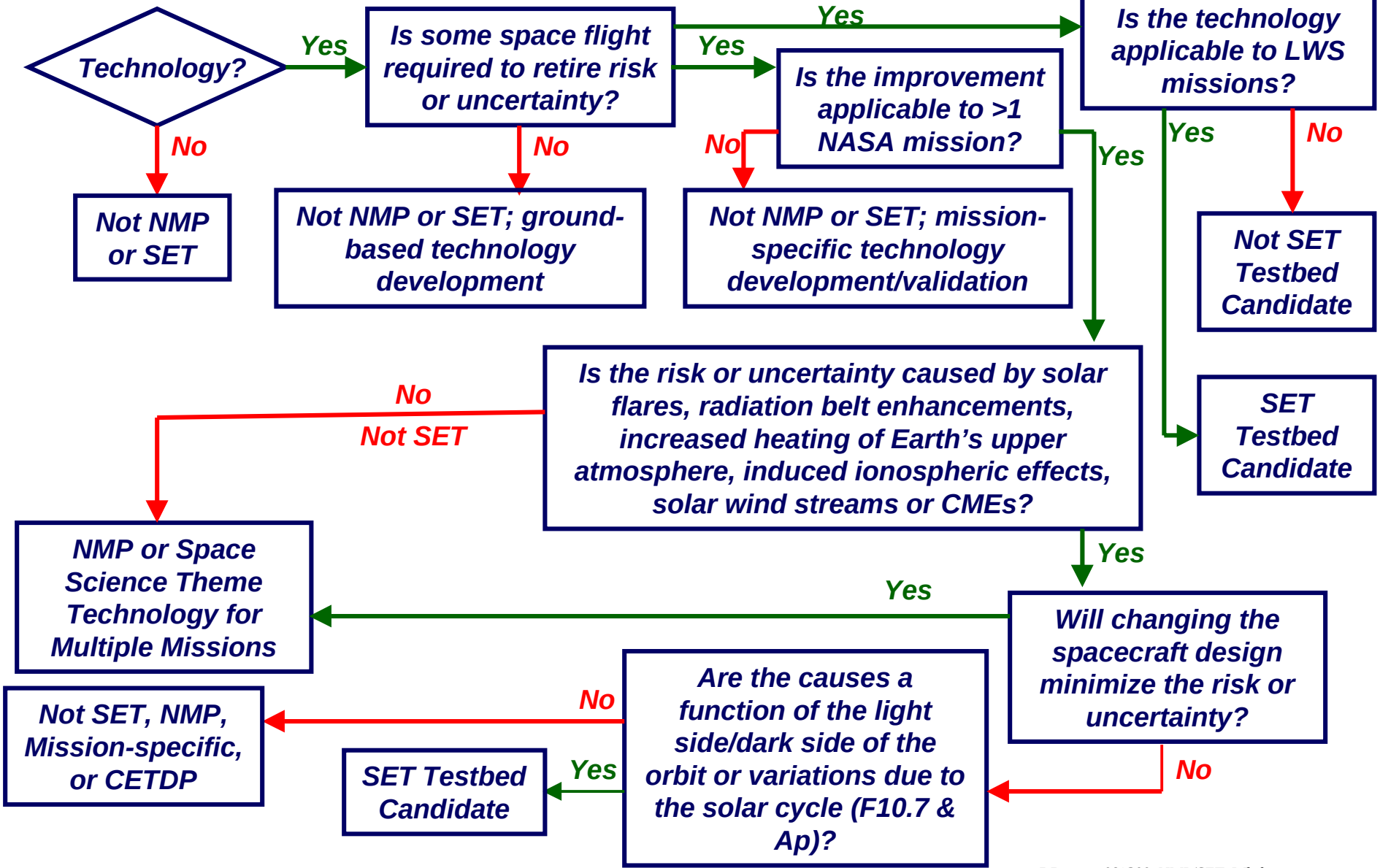
- ***The NMP funds technology development & flight validation of breakthrough technology to retire the risk of first use of the technology in a customer mission***
  - *The customer is the Office of Space Science*
  - *Breakthrough technology offers factors of improvement over proven technology or provides a new approach for providing a capability*
  - *Data analysis is not funded independently from the technology validation*
  - *The funding/partnering vehicles are Jet Propulsion Laboratory-issued Technology Announcements (like a Requests for Proposals)*
    - ***They are announced in the Commerce Business Daily (CBD) Announcements***
  - *All space environments are included in the flight validation opportunities -- those that change and those that do not change due to solar variability*

LWS Background

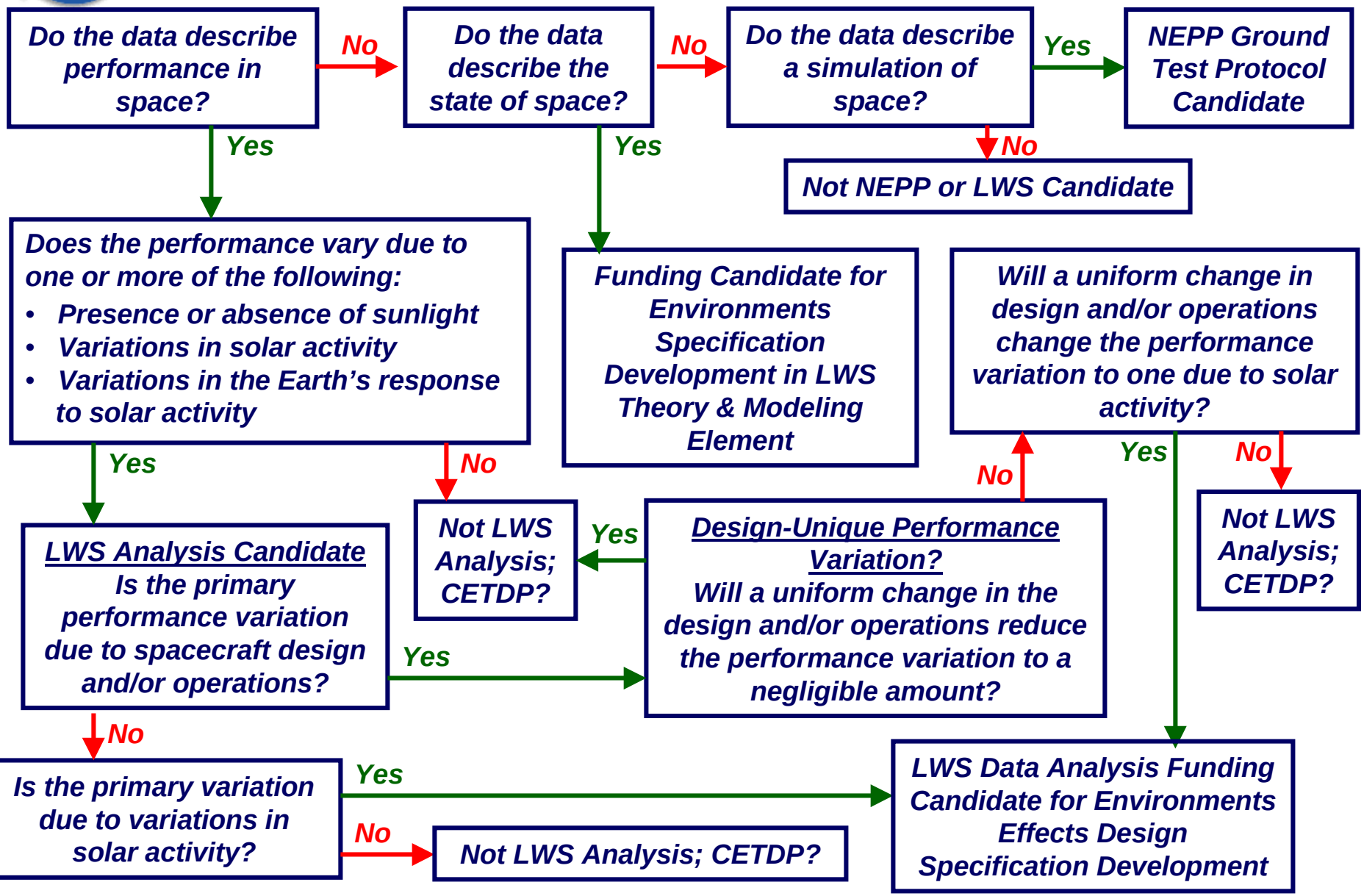
The LWS Program funds 3 Program elements:

- ***LWS science missions***
- ***Theory & Modeling***
  - *NASA Headquarters-issued NASA Research Announcements fund analyses of the natural environment, i.e., the environment in the absence of a spacecraft*
- ***Space Environment Testbeds (SET)***
  - *NASA Goddard Space Flight Center-issued NASA Research Announcements (NRAs) fund and seek partners for flight validation, performance characterization, & analysis of the induced environment, I.e., the environment in the presence of a spacecraft*
    - ***They are announced in the Commerce Business Daily (CBD) Announcements***
  - *Opportunities include:*
    - ***Technology flight validation & performance characterization associated with solar variability***
    - ***Stand-alone data analysis of the induced environment applicable to spacecraft design & operations & associated with solar variability***

Decision Tree for NMP & LWS SET Flight Validation & Performance Characterization



LWS Decision Tree for Data Analysis



CETDP = Cross-Enterprise Technology Development Program; NEPP = NASA Electronic Parts & Packaging Program

Conclusions: Decision Trees

- ***Decision trees have been prepared to guide the proposer to the appropriate program or program element***
  - *Usually, a proposed task applicable to one program is not applicable to the other program*
  - *Some tasks are not applicable to either program, and the decision tree helps guide the proposer to an appropriate NASA funding or partnering source*
- ***Information about non-LWS and non-NMP funding/partnering sources is available through the NASA Internet web sites***